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Studies on conditional gene expression in the brain.

Jerecic J, Single F, Kruth U, Krestel H, Kolhekar R, Storck T, Kask K, Higuchi M, Sprengel R, Seeburg PH

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This manuscript summarizes our recent attempts to regulate in vitro and in vivo the expression of genes encoding components and regulators of the postsynaptic machinery along with marker genes such as lacZ and GFP. In particular, we studied tTA-dependent regulation and utilized Cre in combination with reversible silencing by intron engineering of dominant negative alleles. We further present a "knockin" approach for on-site artificial regulation of chromosomal genes.

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